

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P945645

Luminaire Tested: **GALN-SB1C-740-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P945645
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1C-740-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6599 lumens
Efficiency: N/A
Efficacy: 121.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

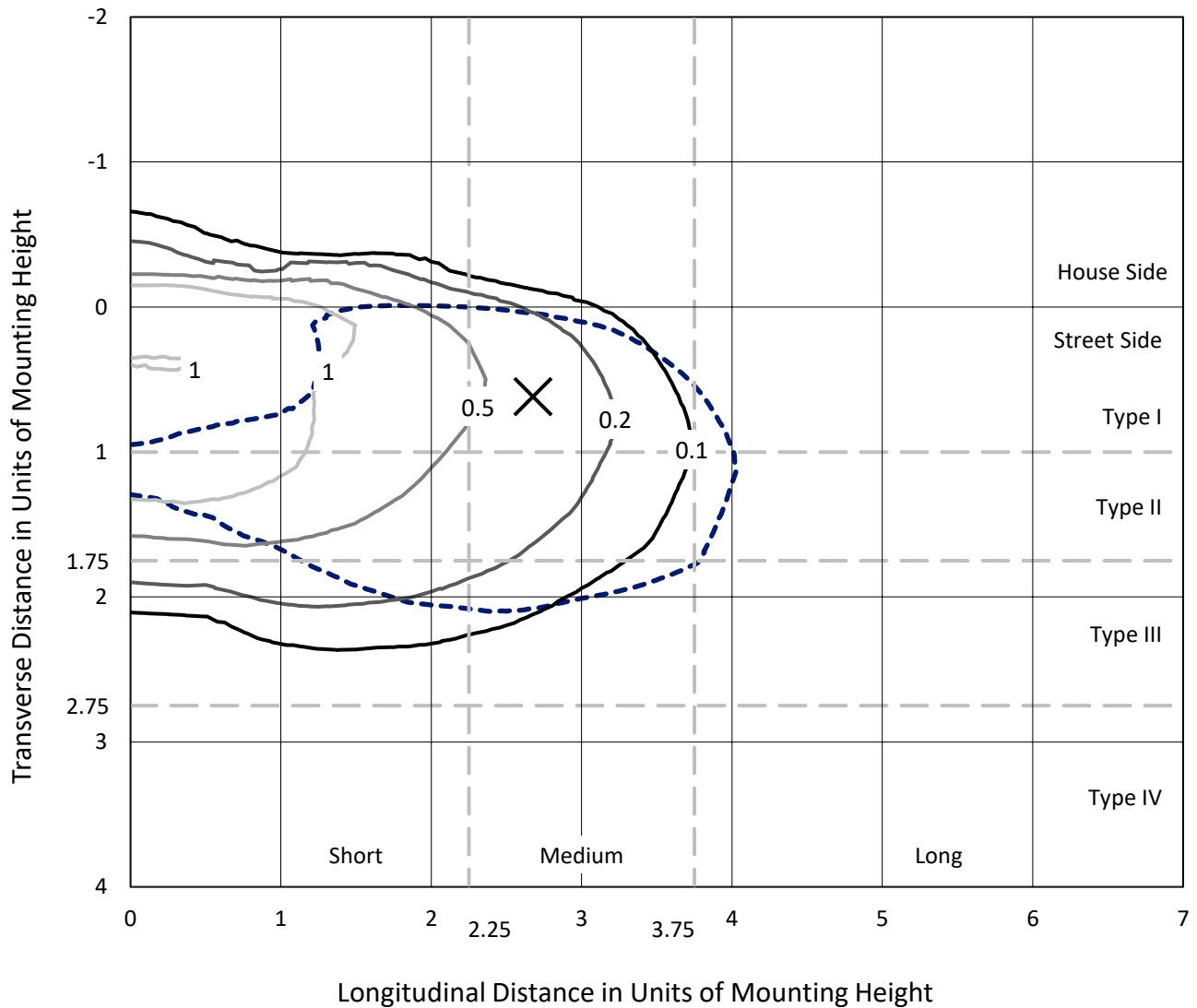
Input Watts (W): 54.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

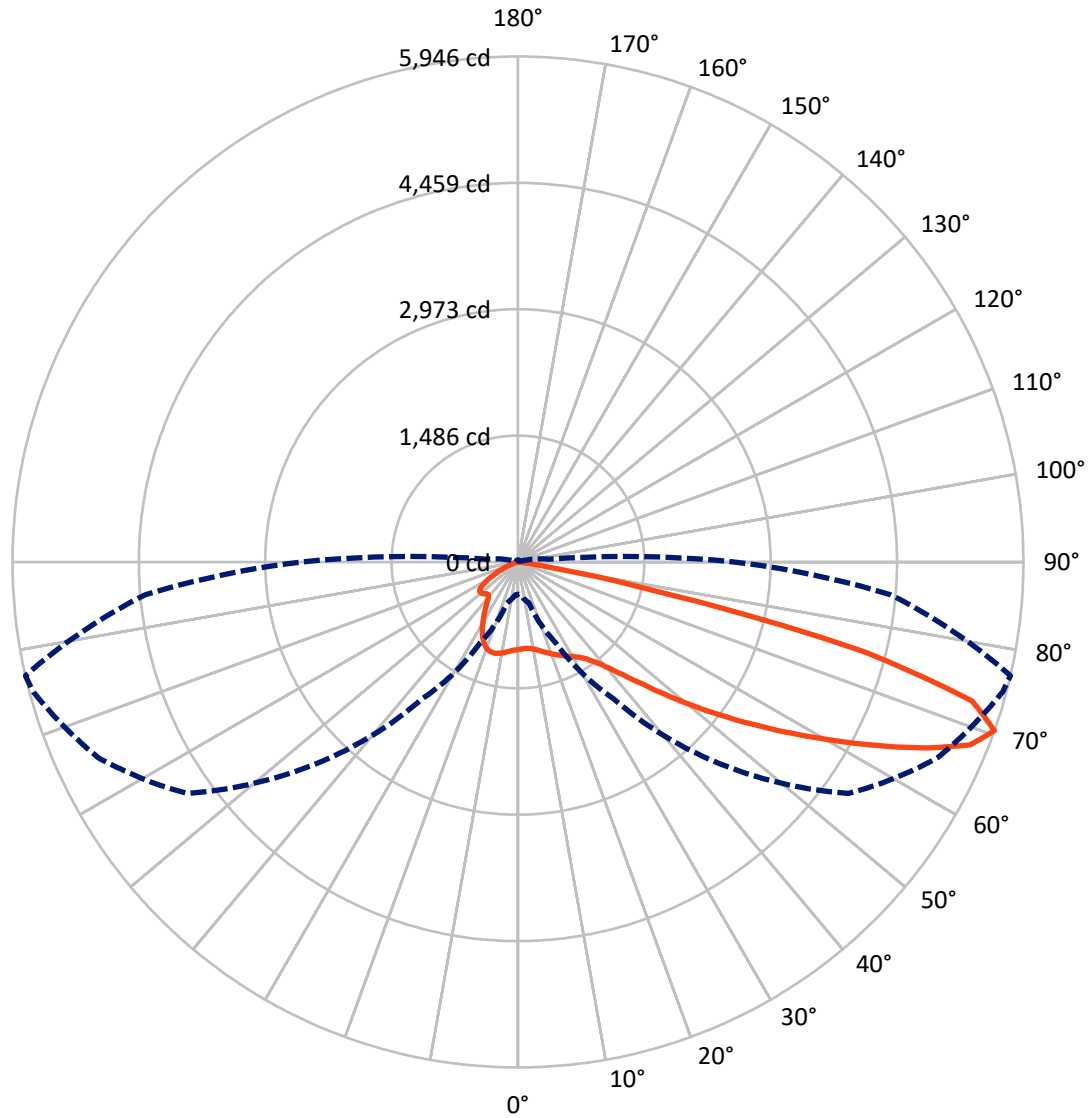
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	695.6	0.0	695.6
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	5903.4	0.0	5903.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	6599.0	0.0	6599.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.7	1.3
10°-20°	210.6	3.2
20°-30°	325.7	4.9
30°-40°	591.0	9.0
40°-50°	1115.7	16.9
50°-60°	1612.0	24.4
60°-70°	1716.0	26.0
70°-80°	909.3	13.8
80°-90°	29.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6599.0	100.0
0°-180°	6599.0	100.0

Coefficient of Utilization



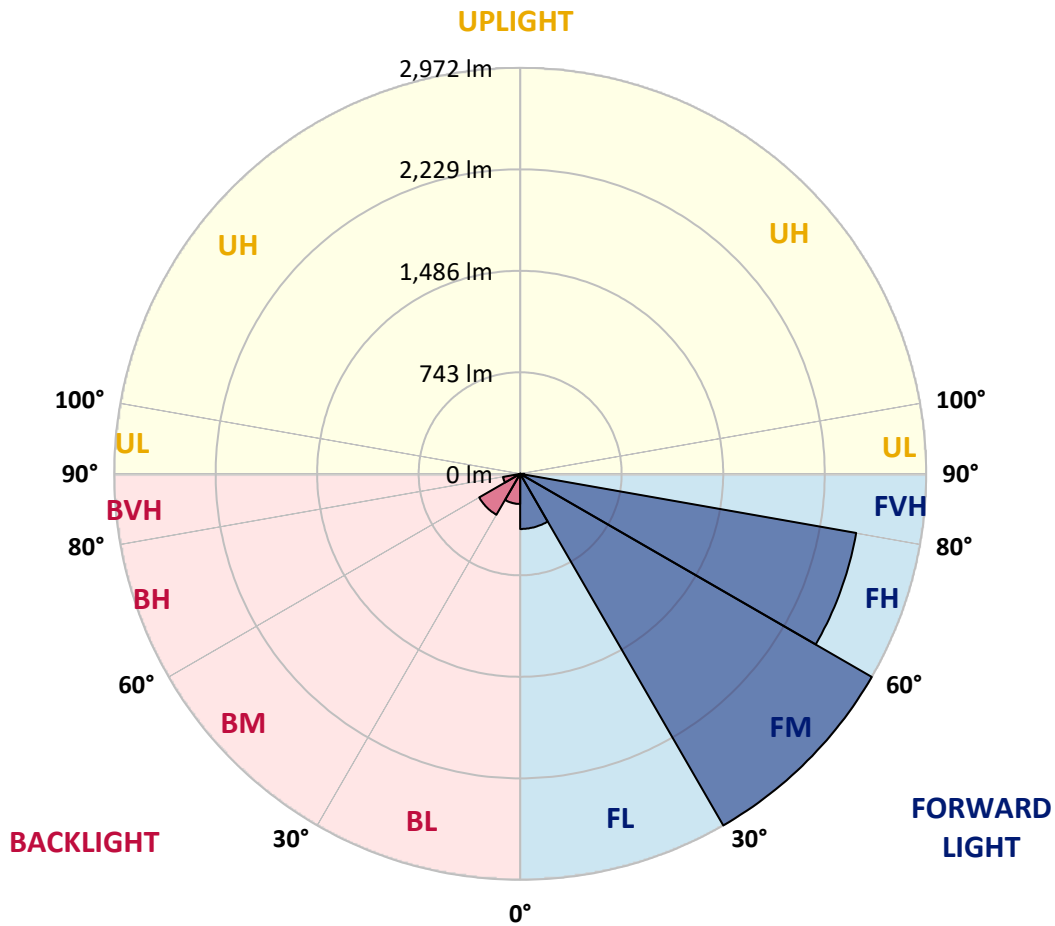
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	404.0	6.1			
FM (30°-60°)	2972.5	45.0			
FH (60°-80°)	2497.8	37.9			G2/5000
FVH (80°-90°)	29.1	0.4			G1/100
BL (0°-30°)	221.0	3.3	B1/500		
BM (30°-60°)	346.3	5.2	B1/1000		
BH (60°-80°)	127.5	1.9	B1/500		G1/500
BVH (80°-90°)	0.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
2.5°	966.4	975.1	973.9	979.7	981.8	990.2	998.5	1009.7	1022.2	1021.8
5°	911.8	920.6	922.6	930.6	940.6	953.5	970.6	993.1	1016.4	1020.2
7.5°	847.2	856.4	861.8	877.6	896.0	922.6	950.6	983.5	1022.2	1027.7
10°	782.6	791.0	798.0	820.5	849.7	889.3	934.7	982.2	1034.3	1042.2
12.5°	742.6	750.5	758.4	778.0	814.3	862.6	924.3	988.1	1054.3	1065.6
15°	728.4	735.5	741.8	759.3	793.0	848.0	922.2	1000.2	1079.7	1094.8
17.5°	730.5	734.3	738.4	751.8	784.7	841.4	926.0	1021.0	1109.8	1123.1
20°	742.6	744.7	745.1	754.3	783.5	840.5	933.5	1041.0	1138.1	1156.0
22.5°	758.0	758.9	758.0	764.3	791.4	846.8	943.5	1065.2	1169.8	1186.4
25°	830.1	814.3	794.3	782.2	804.7	858.9	958.5	1097.7	1204.4	1220.6
27.5°	1053.9	1008.5	936.8	856.4	832.2	876.4	979.3	1130.6	1239.4	1253.9
30°	1417.3	1357.7	1236.0	1054.7	920.6	913.1	1006.4	1163.5	1276.4	1292.3
32.5°	1781.5	1766.9	1626.5	1375.6	1119.3	994.7	1051.4	1208.1	1325.6	1338.1
35°	2149.9	2120.3	2005.3	1757.4	1425.6	1161.0	1126.4	1266.4	1390.2	1404.4
37.5°	2432.0	2414.1	2342.9	2138.7	1789.0	1417.7	1254.8	1356.9	1484.0	1499.8
40°	2681.2	2672.9	2648.7	2514.1	2195.3	1753.6	1454.4	1496.9	1614.0	1632.8
42.5°	2877.1	2896.7	2910.4	2872.9	2614.2	2137.0	1722.8	1693.6	1795.3	1814.4
45°	3077.6	3084.2	3139.6	3193.8	3030.0	2537.9	2025.3	1924.0	2020.7	2044.5
47.5°	3206.3	3233.0	3330.5	3425.9	3379.7	2935.5	2350.4	2196.2	2282.0	2326.6
50°	3215.9	3266.3	3400.5	3566.8	3634.3	3313.8	2703.7	2506.2	2597.5	2646.7
52.5°	3056.3	3134.6	3342.6	3586.0	3771.8	3634.3	3069.2	2816.3	2933.4	2997.5
55°	2343.3	2445.8	3124.6	3481.8	3777.2	3877.3	3425.1	3139.2	3307.6	3380.1
57.5°	2041.6	2093.2	2456.6	3300.9	3676.8	3975.2	3746.8	3446.8	3714.7	3804.8
60°	1698.6	1766.5	2060.3	3005.0	3540.5	3984.8	4031.0	3843.5	4156.1	4257.3
62.5°	1154.3	1228.1	1520.2	2496.6	3354.3	3980.2	4264.0	4251.9	4646.5	4755.3
65°	715.1	761.4	953.9	2038.6	3093.8	3985.2	4507.8	4747.8	5164.1	5274.6
67.5°	565.1	586.3	686.8	1565.2	2645.0	3872.7	4751.1	5214.1	5651.3	5738.8
70°	379.6	392.6	499.7	1049.3	1967.8	3353.4	4746.6	5448.3	5902.2	5945.9
72.5°	200.0	210.0	292.1	485.9	1188.5	2383.7	4001.0	5168.3	5652.5	5586.7
75°	100.0	116.7	196.7	246.7	507.6	1329.4	2484.5	4074.8	4449.0	4194.0
77.5°	75.8	91.7	162.5	162.5	176.7	447.6	1052.2	2222.4	2049.9	1706.9
80°	48.3	62.5	142.1	122.9	73.8	113.8	274.2	622.6	435.5	331.3
82.5°	28.3	40.8	118.4	81.3	41.3	42.1	77.5	132.5	112.9	87.9
85°	11.3	26.7	81.3	32.1	16.3	10.4	23.3	28.3	23.3	17.5
87.5°	0.0	6.3	14.2	0.0	1.3	0.8	1.7	2.1	2.1	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
1029.3	0°	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3	1029.3
1030.2	2.5°	1033.9	1034.7	1037.2	1037.7	1031.8	1024.3	1021.4	1020.2	1015.2	1014.7
1036.8	5°	1046.4	1050.2	1046.4	1035.6	1009.7	973.5	946.0	923.5	903.1	896.8
1059.7	7.5°	1071.4	1075.2	1063.9	1021.4	956.4	884.3	819.3	773.5	732.2	716.8
1087.7	10°	1107.3	1112.3	1076.8	991.0	876.0	760.1	650.1	572.6	512.2	487.6
1125.6	12.5°	1152.3	1154.3	1083.9	944.7	771.4	605.9	450.1	367.1	313.4	293.4
1171.4	15°	1201.9	1198.9	1084.8	881.8	628.8	428.4	293.8	241.3	219.6	212.9
1217.3	17.5°	1253.9	1241.9	1068.1	791.0	472.6	293.0	218.0	205.4	201.7	200.0
1262.7	20°	1305.2	1278.1	1037.7	672.2	339.2	218.8	197.9	194.2	192.1	191.3
1308.5	22.5°	1351.9	1305.6	985.6	534.2	246.3	193.4	187.1	183.8	180.0	178.4
1353.1	25°	1397.3	1321.5	912.2	405.5	197.1	180.9	175.9	169.6	164.6	162.5
1401.0	27.5°	1441.5	1331.5	820.5	300.0	175.9	169.2	160.0	151.3	147.5	146.7
1452.3	30°	1488.6	1334.8	716.4	223.8	162.9	154.6	141.3	131.3	129.2	129.6
1521.5	32.5°	1546.1	1339.8	611.3	183.4	152.1	137.1	121.3	110.9	109.2	110.9
1622.3	35°	1614.8	1349.8	510.1	168.8	142.5	119.2	102.1	93.3	91.7	92.9
1751.5	37.5°	1708.2	1366.0	415.5	165.9	134.6	104.2	85.8	78.8	78.8	79.2
1909.9	40°	1832.4	1409.4	330.9	163.8	130.4	92.9	72.5	69.6	70.8	71.7
2111.6	42.5°	1983.6	1501.5	273.8	161.3	125.9	87.9	65.8	64.6	66.7	67.5
2353.3	45°	2153.2	1618.2	253.8	157.1	121.7	91.3	62.9	61.3	63.8	64.2
2624.2	47.5°	2328.7	1732.3	251.3	152.5	117.5	96.3	62.1	58.3	61.3	61.7
2913.4	50°	2506.2	1806.9	253.8	145.4	110.9	96.3	62.5	55.4	57.9	59.2
3213.4	52.5°	2685.0	1841.1	252.1	130.0	99.2	90.4	62.5	52.9	55.4	56.3
3537.6	55°	2858.4	1834.4	226.7	107.1	84.2	80.0	60.8	50.8	52.5	52.9
3843.9	57.5°	2995.5	1741.5	179.6	83.3	68.3	66.7	55.4	48.3	49.6	49.2
4124.8	60°	3067.1	1537.3	128.4	64.2	53.8	52.5	48.8	45.0	45.8	43.8
4362.8	62.5°	3068.0	1267.3	85.8	50.8	42.9	41.7	41.7	40.4	39.6	35.4
4546.9	65°	3002.5	967.6	57.1	40.4	34.6	32.5	35.0	34.6	31.7	25.8
4603.2	67.5°	2854.2	634.3	43.3	31.7	26.7	25.4	27.9	29.2	27.1	21.7
4398.2	70°	2549.1	369.2	35.8	24.6	20.0	18.8	22.5	25.0	22.5	17.5
3759.3	72.5°	2117.4	199.2	29.2	18.3	13.8	12.5	17.9	20.4	17.9	12.9
2412.0	75°	1374.0	106.7	22.5	12.1	7.1	7.9	13.3	15.0	12.5	8.3
708.0	77.5°	461.3	47.1	14.2	5.8	3.3	3.3	7.9	9.2	5.8	2.9
128.8	80°	102.9	19.6	5.8	2.5	1.3	1.3	1.7	1.7	0.8	0.0
39.6	82.5°	33.8	7.9	2.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0
10.0	85°	12.9	2.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3.3	87.5°	5.0	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
1029.3
1015.6
893.1
710.5
477.2
287.1
212.9
199.6
190.4
177.9
161.7
145.9
129.6
110.4
92.5
78.8
71.7
67.5
64.6
62.1
59.6
56.3
52.9
49.2
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